3.2.4 Middle Potomac Group Summary

3.2.4.1 Bull Neck Run Watershed

Description. Bull Neck Run Watershed is one of the smaller watersheds in Fairfax County, with just under 5 miles of stream assessed. It consists of a small stream network that drains directly to the Potomac River.

Habitat. The habitat assessment results for Bull Neck Run Watershed are summarized by stream in Table 3-15. Habitat scores for each reach are depicted in Figure 3-24. Based on a length weighted habitat score of 128 (Table 3-2), Bull Neck Run Watershed is one of the highest quality streams, compared to the rest of the County. Just over 3 miles of stream were categorized as having "fair" habitat conditions, 1 mile as "good," and 1 mile as "excellent."

CEM. Based on the CEM evaluations the channels in Bull Neck Run Watershed are divided nearly equally between Stage 3 and Stage 4 (Table 3-3). Figure 3-25 summarizes the CEM results for Bull Neck Run Watershed.

Infrastructure. The infrastructure inventory resulted in 25 inventory points. The most significant problems were related to two erosional areas that were each given an impact score of 7. The infrastructure inventory results are summarized in Table 3-16. Figures 3-26, 3-27, 3-28, 3-29, and 3-30 summarize impact scores for the erosion problems; deficient buffers; pipes/ditches; crossings; and dumps, obstructions, and utilities, respectively.

3.2.4.2 Scotts Run Watershed

Description. Scotts Run Watershed is a small watershed, with approximately 8 miles of stream assessed. It is located in the middle of the northeastern boundary of the County. The watershed is contained entirely within the county boundaries, and drains directly to the Potomac River.

Habitat. The habitat assessment results for Scotts Run Watershed are summarized by stream in Table 3-17. Habitat scores for each reach are depicted in Figure 3-24. Based on a length weighted habitat score of 108 (Table 3-2), Scotts Run Watershed is in the middle range of quality, compared to the rest of the County. Approximately 4 miles of stream were categorized as having "poor" habitat conditions, 2.5 miles as "fair," and 0.5 miles as "good," and 1.5 miles as "excellent."

CEM. On the basis of the CEM evaluations 89 percent of the channels in Scotts Run Watershed are in Evolutionary Stage 3 (Table 3-3). Figure 3-25 summarizes the CEM results for Scotts Run Watershed.

Infrastructure. The infrastructure inventory resulted in 78 inventory points. The most significant problem was related to a crossing that was given an impact score of 8. The infrastructure inventory results are summarized in Table 3-18. Figures 3-26, 3-27, 3-28, 3-29, and 3-30 summarize impact scores for the erosion problems; deficient buffers; pipes/ditches; crossings; and dumps, obstructions, and utilities, respectively.

3.2.4.3 Dead Run Watershed

Description. Dead Run Watershed is one of the smaller watersheds in Fairfax County, with approximately 6 miles of stream assessed. It consists of a small stream network that drains directly to the Potomac River at the north end of the County.

Habitat. The habitat assessment results for Dead Run Watershed are summarized by stream in Table 3-19. Habitat scores for each reach are depicted in Figure 3-24. Based on a length weighted habitat score of 103 (Table 3-2), Dead Run Watershed is in the middle range of quality, compared to the rest of the County. Approximately 3 miles of stream were categorized as having "poor" habitat conditions and 3 miles as "fair."

CEM. On the basis of CEM evaluations, all of the channels in Dead Run Watershed are in Stage 3 (Table 3-3). Figure 3-25 summarizes the CEM results for Dead Run Watershed.

Infrastructure. The infrastructure inventory resulted in 49 inventory points. The most significant problems were related to two deficient buffers that were each given an impact score of 7. The infrastructure inventory results are summarized in Table 3-20. Figures 3-26, 3-27, 3-28, 3-29, and 3-30 summarize impact scores for the erosion problems; deficient buffers; pipes/ditches; crossings; and dumps, obstructions, and utilities, respectively.

3.2.4.4 Turkey Run Watershed

Description. Turkey Run Watershed is a small watershed, with approximately 3 miles of stream assessed. It is located along the middle of the northeastern boundary of the County. The watershed consists of a couple small tributaries that drain directly to the Potomac River.

Habitat. The habitat assessment results for Turkey Run Watershed are summarized by stream in Table 3-21. Habitat scores for each reach are depicted in Figure 3-24. Based on a length weighted habitat score of 124 (Table 3-2), Turkey Run Watershed is one of the highest quality watersheds in the County. Approximately 1 mile of stream was categorized as having "poor" habitat conditions, and 2 miles as "good."

CEM. On the basis of the CEM evaluations all of the channels assessed in Turkey Run Watershed are in Evolutionary Stage 3 (Table 3-3). Figure 3-25 summarizes the CEM results for Turkey Run Watershed.

Infrastructure. The infrastructure inventory resulted in 21 inventory points. The most significant problem was related to an erosional area that was given an impact score of 7. The infrastructure inventory results are summarized in Table 3-22. Figures 3-26, 3-27, 3-28, 3-29, and 3-30 summarize impact scores for the erosion problems; deficient buffers; pipes/ditches; crossings; and dumps, obstructions, and utilities, respectively.

3.2.4.5 Pimmit Run Watershed

Description. Pimmit Run Watershed is a medium sized watershed, with approximately 19 miles of stream assessed. It is located in the middle of the northeastern boundary of the County. The watershed is contained entirely within the county boundaries, and drains directly to the Potomac River.

Habitat. The habitat assessment results for Pimmit Run Watershed are summarized by stream in Table 3-23. Habitat scores for each reach are depicted in Figure 3-24. Based on a

length weighted habitat score of 118 (Table 3-2), Pimmit Run Watershed is in the upper middle range, compared to the rest of the County. Approximately 2 miles of stream were categorized as having "poor" habitat conditions, 8.5 miles as "fair," and 7 miles as "good" and 0 miles as "excellent."

CEM. Based on the CEM evaluations approximately 80 percent of the channels in Pimmit Run Watershed are in Evolutionary Stage 3 with the most of the remainder in Stage 4 (Table 3-3). Figure 3-25 summarizes the CEM results for Pimmit Run Watershed.

Infrastructure. The infrastructure inventory resulted in 272 inventory points. The most significant problems were related to 2 deficient buffers that were given impact scores of 9 and 10. The infrastructure inventory results are summarized in Table 3-24. Figures 3-26, 3-27, 3-28, 3-29, and 3-30 summarize impact scores for the erosion problems; deficient buffers; pipes/ditches; crossings; and dumps, obstructions, and utilities, respectively.

TABLE 3-15 Habitat Assessment Summary for Bull Neck Run Watershed Fairfax County Stream Physical Assessment

			Linear Feet (Per	cent) of Stream	1	
Stream	Very Poor	Poor	Fair	Good	Excellent	Total
Bull Neck Run	0 (0.00)	0 (0.00)	10,005 (100.00	0 (0.00)	0 (0.00)	10,005
Tributary to Bull Neck Run	0 (0.00)	0 (0.00)	6,394 (55.51)	0 (0.00)	5,125 (44.49)	11,519
Tributary to Potomac River	0 (0.00)	0 (0.00)	0 (0.00)	3,798 (100.00)	0 (0.00)	3,798
Watershed Total	0 (0.00)	0 (0.00)	16,399 (64.76)	3,798 (15.00)	5,125 (20.24)	25,323

TABLE 3-16 Infrastructure Assessment Summary for Bull Neck Run Watershed Fairfax County Stream Physical Assessment

Impact Score	0	1	2	3	4	5	6	7	8	9	10	>10	Total
Deficient Buffers	0	0	0	4	1	0	0	0	0	0	0	N/A	5
Crossings	0	8	2	2	1	0	0	0	0	0	0	N/A	13
Ditches and Pipes	0	0	0	0	1	0	0	0	0	0	0	N/A	1
Erosion	0	0	0	0	0	1	0	2	0	0	0	N/A	3
Head Cut	0	0	0	0	0	0	0	0	0	0	0	N/A	0
Obstruction	0	0	0	2	1	0	0	0	0	0	0	N/A	3
Utility	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	8	2	8	4	1	0	2	0	0	0	0	25

TABLE 3-17 Habitat Assessment Summary for Scotts Run Watershed Fairfax County Stream Physical Assessment

	Linear Feet (Percent) of Stream											
Stream	Very Poor	Poor	Fair	Good	Excellent	Total						
Bradley Branch	0 (0.00)	3,647 (100.00)	0 (0.00)	0 (0.00)	0 (0.00)	3,647						
Scott Run	0 (0.00)	7,088 (31.02)	5,370 (23.50)	2,726 (11.93)	7,664 (33.54)	22,848						
Tributary to Scott Run	0 (0.00)	8,824 (51.76)	8,224 (48.24)	0 (0.00)	0 (0.00)	17,049						
Watershed Total	0 (0.00)	19,559 (44.92)	13,594 (31.22)	2,726 (6.26)	7,664 (17.60)	43,543						

TABLE 3-18 Infrastructure Assessment Summary for Scotts Run Watershed Fairfax County Stream Physical Assessment

Impact Score	0	1	2	3	4	5	6	7	8	9	10	>10	Total
Deficient Buffers	0	0	1	4	5	3	1	0	0	0	0	N/A	14
Crossings	0	12	9	9	3	0	0	0	1	0	0	N/A	34
Ditches and Pipes	1	1	0	3	2	0	0	0	0	0	0	N/A	7
Erosion	0	0	0	8	4	3	0	0	0	0	0	N/A	15
Head Cut	0	0	0	0	0	0	0	0	0	0	0	N/A	0
Obstruction	0	0	1	2	2	1	0	0	0	0	0	N/A	6
Utility	0	0	0	2	0	0	0	0	0	0	0	0	2
Total	1	13	11	28	16	7	1	0	1	0	0	0	78

TABLE 3-19Habitat Assessment Summary for Dead Run Watershed Fairfax County Stream Physical Assessment

	Linear Feet (Percent) of Stream												
Stream	Very Poor	Poor	Fair	Good	Excellent	Total							
Dead Run	0 (0.00)	0 (0.00)	13,154 (92.25)	0 (0.00)	1,105 (7.75)	14,260							
Tributary to Dead Run	0 (0.00)	15,057 (92.54)	1,214 (7.46)	0 (0.00)	0 (0.00)	16,271							
Tributary to Potomac River	0 (0.00)	0 (0.00)	0 (0.00)	1,087 (100.00	0 (0.00)	1,087							
Watershed Total	0 (0.00)	15,057 (47.62)	14,368 (45.44)	1,087 (3.44)	1,105 (3.50)	31,618							

TABLE 3-20 Infrastructure Assessment Summary for Dead Run Watershed *Fairfax County Stream Physical Assessment*

Impact Score	0	1	2	3	4	5	6	7	8	9	10	>10	Total
Deficient Buffers	0	0	0	5	6	1	0	2	0	0	0	N/A	14
Crossings	1	12	8	2	1	0	0	0	0	0	0	N/A	24
Ditches and Pipes	0	1	2	1	0	0	0	0	0	0	0	N/A	4
Erosion	0	0	0	0	0	2	1	0	0	0	0	N/A	3
Head Cut	0	0	0	0	0	0	0	0	0	0	0	N/A	0
Obstruction	0	0	0	0	1	1	0	0	0	0	0	N/A	2
Utility	0	0	0	0	0	0	2	0	0	0	0	0	2
Total	1	13	10	8	8	4	3	2	0	0	0	0	49

TABLE 3-21Habitat Assessment Summary for Turkey Run Watershed Fairfax County Stream Physical Assessment

			Linear Feet (Po	ercent) of Strea	ım	
Stream	Very Poor	Poor	Fair	Good	Excellent	Total
Tributary to Turkey Run	0 (0.00)	5,590 (93.55)	385 (6.45)	0 (0.00)	0 (0.00)	5,975
Turkey Run	0 (0.00)	0 (0.00)	0 (0.00)	8,801 (100.00)	0 (0.00)	8,801
Watershed Total	0 (0.00)	5,590 (37.83)	385 (2.61)	8,801 (59.56)	0 (0.00)	14,777

TABLE 3-22 Infrastructure Assessment Summary for Turkey Run Watershed Fairfax County Stream Physical Assessment

Impact Score	0	1	2	3	4	5	6	7	8	9	10	>10	Total
Deficient Buffers	0	0	0	0	4	3	0	0	0	0	0	N/A	7
Crossings	0	1	2	3	1	0	0	0	0	0	0	N/A	7
Ditches and Pipes	0	0	1	0	0	0	0	0	0	0	0	N/A	1
Erosion	0	0	0	0	2	1	0	1	0	0	0	N/A	4
Head Cut	0	0	0	0	0	0	0	0	0	0	0	N/A	0
Obstruction	0	0	0	2	0	0	0	0	0	0	0	N/A	2
Utility	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	1	3	5	7	4	0	1	0	0	0	0	21

TABLE 3-23Habitat Assessment Summary for Pimmit Run Watershed *Fairfax County Stream Physical Assessment*

			Linear Feet (F	Percent) of Strea	ım	
Stream	Very Poor	Poor	Fair	Good	Excellent	Total
Bryan Branch	0 (0.00)	0 (0.00)	4,078 (100.00	0 (0.00)	0 (0.00)	4,078
Burkes Spring Branch	0 (0.00)	3,578 (100.00	0 (0.00)	0 (0.00)	0 (0.00)	3,578
Little Pimmit Run	0 (0.00)	596 (4.63)	12,267 (95.37)	0 (0.00)	0 (0.00)	12,863
Pimmit Run	0 (0.00)	4,280 (8.82)	10,057 (20.71)	34,217 (70.47)	0 (0.00)	48,554
Tributary to Pimmit Run	0 (0.00)	3,024 (11.68)	18,915 (73.05)	3,954 (15.27)	0 (0.00)	25,893
Watershed Total	0 (0.00)	11,478 (12.09)	45,316 (47.72)	38,172 (40.19)	0 (0.00)	94,966

TABLE 3-24 Infrastructure Assessment Summary for Pimmit Run Watershed Fairfax County Stream Physical Assessment

Impact Score	0	1	2	3	4	5	6	7	8	9	10	>10	Total
Deficient Buffers	0	0	0	7	12	43	14	2	0	1	1	N/A	80
Crossings	17	45	6	4	1	0	0	1	0	0	0	N/A	74
Ditches and Pipes	110	0	1	0	1	0	0	0	0	0	0	N/A	112
Erosion	0	0	0	0	0	0	0	0	0	0	0	N/A	0
Head Cut	0	0	0	0	0	0	0	0	0	0	0	N/A	0
Obstruction	0	0	1	1	1	0	1	0	0	0	0	N/A	4
Utility	0	0	0	0	0	0	1	0	1	0	0	0	2
Total	127	45	8	12	15	43	16	3	1	1	1	0	272













